L5 ANSWER 27 OF 97 CA COPYRIGHT 2001 ACS
AN 120:114777 CA
TI Spherical shell-form heat **insulating** material and its manufacture
IN Imai, Hiroshi; Yamamoto, Kimiji; Hoshino, Isao
PA Kunnetsupu Setsukai Kogyo Kk, Japan; Tokyo Yogyo Kk; Sobue Kuree Shoji Kk
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C04B032-00
ICS B01J002-00; C04B038-06
CC 57-6 (Ceramics)
Section cross-reference(s): 55
FAN.CNT 1

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PI JP 05310464	A2	19931122	JP 1992-143629	19920511

AB Spherical shell-form heat **insulating** material esp. for applying onto the surface of molten steel is manufd. from MgO component powder, CaO component powder, and SiO2 component powder. A raw powder mix contg. CaO 20-40, MgO 30-70, and SiO2 10-30 wt.% is coated on spherical pellets of polystyrene foam and sintered to obtain hollow spherical heat **insulating** material.
ST **calcia** magnesia **silica** thermal **insulator**
IT Thermal **insulators**
(spherical shell-form, contg. magnesia and **silica** and **calcia**, for covering molten steel)
IT 9003-53-6, Polystyrene
RL: USES (Uses)
(foam, in manuf. of spherical shell-form heat **insulating** material contg. magnesia and **silica** and **calcia**)
IT 1305-78-8, **Calcia**, uses 1309-48-4, Magnesia, uses 7631-86-9, **Silica**, uses
RL: USES (Uses)
(heat **insulating** material contg., spherical shell-form, for covering molten steel)
IT 471-34-1, Calcium carbonate, uses 13717-00-5, Magnesite 13983-17-0, **Wollastonite**
RL: USES (Uses)
(in manuf. of spherical shell-form heat **insulating** material